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1 wherein the mobile gripper housing further
2 comprises a release lever actuator which in the
3 clamp cutting mode contacts a pivotable
4 stationary gripper release lever, thereby
5 releasing the stationary first gripper from the
6 segment of the clamp after the cutting mode
7 operation.

8
9 2. The apparatus of claim 1, wherein the first gripper
10 has a jaw that prevents the clamp segment from moving
11 forward during the cutting mode of operation.

12
13 3. The apparatus of claim 2, wherein the first gripper
14 jaw travels in an angled slot so as to allow a proper slack
15 in the clamp segment during the cutting mode of operation.

16
17 4. The apparatus of claim 4, wherein the linkage
18 further comprises a gear assembly and a torque adjustment
19 assembly for the second gripper, thereby providing a
20 variable tensioning capability to the clamp applicator for
21 accommodating a plurality of clamp widths.

22
23 5. The apparatus of claim 4, wherein the housing
24 further comprises a screw drive for the second gripper.

25

1 6. The apparatus of claim 1, wherein the motor is a DC
2 type, the housing has a battery pack, and the housing has a
3 DC input receptacle.

4

5 7. The apparatus of claim 6, further comprising a
6 detachable bench mounting base for the housing.

7

8 8. The apparatus of claim 7 further comprising and
9 AC/DC converter and a foot pedal controller for the motor,
10 wherein both speed and direction are controlled by the foot.

11

12 9. The apparatus of claim 1 further comprising a free
13 end clamp adapter having a free end port on the housing and
14 located forward of the entry port.

15

16 10. The apparatus of claim 1, further comprising a
17 manual release lever for each of the first and second
18 gripper.

19

20 11. A clamp applicator comprising:

21 a housing having a motor;

22 a powered pulling member having a clamp which
23 removably attaches to a clamp segment;

24 a powered cutter to cut the clamp segment; and

1 an automatic clamp release mechanism which releases
2 the clamp segment after the powered cutter cuts the
3 clamp segment.

4

5 12. The apparatus of claim 11, wherein the pulling
6 member further comprises a screw powered housing which
7 contains an angled slot with a movable jaw therein.

8

9 13. The apparatus of claim 12 further comprising a
10 stationary gripper located near a clamp entry port, said
11 stationary gripper having a movable jaw to hold a segment of
12 a tightened clamp.

13

14 14. The apparatus of claim 13, wherein the motor
15 further comprises an ON/OFF and FORWARD/REVERSE switch,
16 wherein the FORWARD mode powers the pulling member rearward,
17 thereby pulling and tensioning the clamp, the reverse switch
18 powers the pulling element forward, forcing a cutter into
19 the clamp segment, and resetting the tool for the next
20 clamp.

21

22 15. The apparatus of claim 14, wherein the cutter has a
23 pivot and a lever arm, and the pulling member housing forces
24 the lever arm to activate the cutter.

25

1 16. The apparatus of claim 11, wherein the motor is a
2 DC type, and the housing receives a battery pack.

3

4 17. The apparatus of claim 11 further comprising a
5 bench mount for the housing, an AC-DC converter, a foot
6 switch controller and a DC input port on the housing.

7

8 18. The apparatus of claim 15, wherein the pulling
9 member housing has a clamp exit port to allow the clamp
10 segment to leave the housing in the REVERSE-RESET mode.

11

12 19. The apparatus of claim 14 further comprising a gear
13 assembly and a variable torque clutch to enable a range of
14 clamp widths to be applied.

15

16 20. The apparatus of claim 19 further comprising a free
17 end clamp adapter to removably fasten adjacent to an entry
18 port of the housing.

19

20 21. The apparatus of claim 13 further comprising an
21 automatic stationary gripper release assembly.

22

23 22. The apparatus of claim 21 further comprising a
24 manual release lever for each of the stationary gripper and
25 the clamp.

1
2 23. A clamp applicator comprising:
3 a housing having a motor, a clamp entry port, a
4 pulling member means functioning to pull a clamp
5 segment away from the clamp entry port via a linkage
6 to the motor;
7 a cutter means functioning to cut the clamp segment
8 via a linkage to the motor; and
9 an automatic clamp release means functioning to free
10 the clamp segment after a cut.

11
12 24. The apparatus of claim 23, wherein the cutter means
13 further comprises a pivotable arm having a cutting end and a
14 lever end, and the linkage to the motor further comprises a
15 gear assembly moving the pulling member means against the
16 lever end.

17
18 25. The apparatus of claim 24 further comprising a
19 stationary gripper means function to hold the clamp segment
20 during a cutting operation.

21
22 26. The apparatus of claim 23, wherein the motor is a
23 DC type, and the housing receives a battery pack.

24

1 27. The apparatus of claim 23 further comprising a free
2 end clamp adapter removably attachable adjacent to an entry
3 port of the housing.

4

5 28. The apparatus of claim 23 further comprising a
6 variable torque transmission means for the motor to transmit
7 an adjustable force to the pulling member means, thereby
8 enabling an application of various width clamps.

9

10 29. The apparatus of claim 26 further comprising a
11 bench mount, and AC/DC converter, a DC port on the housing
12 and a foot activated controller for the motor.

13

14 30. The apparatus of claim 25 further comprising a
15 manual release lever for each of the pulling member means
16 and the stationary gripper means.

17

18 31. A clamp applicator comprising:

19 a housing having a motor with an ON/OFF and a

20 FORWARD/REVERSE switch;

21 a stationary first gripper located near a band entry
22 port in the housing;

23 a second gripper having a linkage to the motor to

24 move forward by means of a mobile gripper

25 housing toward the entry port and backward;

1 a cutter in the housing for cutting a tightened
2 clamp;
3 wherein a clamp tightening mode of operation powers
4 the second gripper backward while gripping a
5 segment of a clamp, thereby tightening the
6 clamp;
7 wherein a clamp cutting mode of operation powers the
8 second gripper forward, thereby releasing its
9 grip on the clamp segment and activating the
10 cutter to cut the clamp segment;
11 wherein the cutter further comprises a pivot mount
12 in the housing, and the second gripper has a
13 mechanical interface with one end of the cutter
14 to pivot a cutting end of the cutter into
15 contact with the segment of the clamp during the
16 cutting mode of operation; and
17 a manual release lever for each of the first and
18 second gripper.